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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/927,333	0	08/13/2001	Michael L. Boyer II	8932-321-999	6086
20582	7590	07/15/2003			
PENNIE & I		IDS LLP	EXAMINER		
1667 K STREET NW SUITE 1000				PHILOGENE, PEDRO	
WASHINGTO	ON, DC	20006	ART UNIT		PAPER NUMBER
				3732	/1
				DATE MAILED: 07/15/2003	[1]

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	09/927,333	BOYER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Pedro Philogene	3732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by state  - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a reply be bely within the statutory minimum of thirty (30) d will appty and will expire SIX (6) MONTHS to the cause the application to become ABANDO	e timely filed  days will be considered timely.  rom the mailing date of this communication.  DNED (35 U.S.C.§ 133).				
Status	1 May 2003					
1) Responsive to communication(s) filed on 2						
	This action is non-final.	procedution as to the marits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,					
4)⊠ Claim(s) <u>1-13 and 25-36</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>9-13 and 25-28</u> is/are allowed.						
6)⊠ Claim(s) <u>1-8 and 29-36</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	I/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami		·				
10)☐ The drawing(s) filed on is/are: a)☐ ac						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120		10(-) (-1) (0)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the p application from the International * See the attached detailed Office action for a l	Bureau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. § 1	19(e) (to a provisional application).				
a)  The translation of the foreign language 15) Acknowledgment is made of a claim for dome	provisional application has been estic priority under 35 U.S.C. §§	received. 120 and/or 121.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152) .				
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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8,29-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grooms et al. (6,090,998).

With respect to claims 1-8, 29-36, Grooms et al disclose a bone sheet (100,200, 300, 400, 500, 600, 800) for implantation, the sheet comprising an at least partially mineralized field (830, 602,604,504, 402,301,302, 202, 101,102) substantially surrounding at least one de-mineralized region (103, 203,303, 403,503,603,810); at least one hole (210,306, 307, 407, 410,502) configured and dimensioned to receive at least one fastener (553).

It is noted that Grooms et al teach of a mineralized field surrounding a demineralized region, instead of the de-mineralized field surrounding a mineralized region, as claimed by applicant. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to change the location of the part, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

As to the thickness of the sheet being between about 0.5 mm and about 3 mm; it would have been obvious to one having ordinary skill in the art at the time the invention was made to reach the optimum value for the thickness, since it has been held that

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discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

As to the sheet being from a cortical bone, see column 2, lines 45-50. As to the at least one rib providing localized thickness to the sheet, see FIG. 8. at (840).

## Allowable Subject Matter

Claims 9-13,25-28 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to disclose or reasonably teach a method of forming a flexible bone sheet comprising the step of masking the cortical sheet proximate the at least one hole to create a masked region surrounding the at least one hole and applying demineralized agents to the cortical sheet around the masked region.

# Response to Amendment

Applicant's arguments with respect to claims 1-13, 25-36, have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4,627,853

12-1986

Campbell et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (703) 308-2252. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P Shaver can be reached on (703) 308-2582. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 305-3591 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Pedro Philogene July 10, 2003 PEDRO PHILOGENE PRIMARY EXAMINER